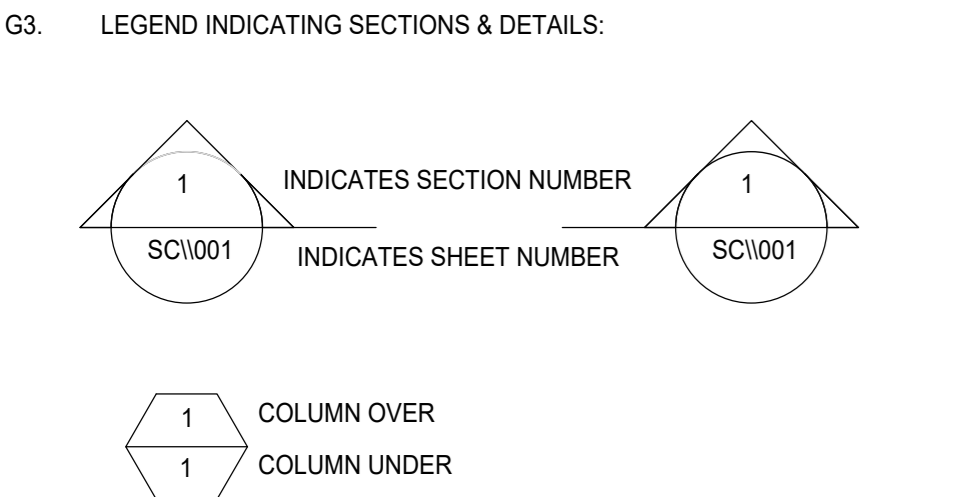


GENERAL:

- G1. MAXIMUM DESIGN FOUNDATION BEARING PRESSURE - 100kPa
- G2. DESIGN LOADING:
IMPOSED LOADING ALLOWANCES = 2.5kPa FOR WARDS
= 0.8kPa FOR SERVICES
= 3kPa FOR TOILETS & WALKWAYS
- G3. LEGEND INDICATING SECTIONS & DETAILS:



- G4. ALL BASES AND COLUMNS ARE SYMMETRICAL ON GRID LINES UNLESS OTHERWISE INDICATED
- G5. DIMENSIONS OF BEAMS ARE SHOWN AS WIDTH X DEPTH
- G6. NO BASES ON BACKFILL - USE MASS CONCRETE BELOW BASES UNLESS OTHERWISE STATED.
- G7. ALL BEAMS AND STRUCTURAL SLABS MUST BE PROVIDED WITH AN UPWARD CAMBER AS SHOWN BELOW UNLESS INDICATED OTHERWISE:
CANTILEVERS : SPAN DIVIDED BY 200
ALL OTHER SPANS : SPAN DIVIDED BY 500
- G8. JOINTS INDICATED IN SURFACE BEDS, SLABS AND BEAMS ARE ALSO TO BE CONSTRUCTED IN BRICK WALLS, SCREENS AND FINISHES.
- G9. THE CONTRACTOR MUST ENSURE THAT ALL EMBEDDED ITEMS FOR SERVICES HAVE BEEN PROVIDED FOR AND POSITIONED ACCORDING TO THE LATEST REVISION DRAWINGS OF ALL DISCIPLINES BEFORE CASTING CONCRETE.
- G10. ALL FINISHES TO COMPLY WITH CONCRETE SPECIFICATION FOR CONCRETE FINISHING DETAILS REFER TO FINISHING SCHEDULE
- G11. PROVISIONS FOR PROPS UNDER SLABS & BEAMS:
THE CONTRACTOR MUST ENSURE THAT BEAMS &/OR SLABS HAVE SUFFICIENT STRENGTH &/OR ARE ADEQUATELY PROPPED TO CARRY CONSTRUCTION LOADS FROM ABOVE. THIS IS TO BE DONE IN ACCORDANCE WITH THE LATEST SABS CODE.
- G12. ENGINEER TO CONFIRM EXCAVATION LEVELS ON SITE. EXTRA EXCAVATION DOWN TO ACCEPTABLE MATERIAL SHALL BE BACKFILLED WITH MASS CONCRETE, UNLESS OTHERWISE SPECIFIED
- G13. REFER TO LAYOUT DRAWING FOR CONCRETE FINISHES, GROOVES, CHAMFERS, ETC. UNLESS OTHERWISE SHOWN ALL SMOOTH SURFACE CONCRETE CORNERS ARE TO BE PROVIDED WITH 25 X 25 CHAMFERS
- G14. STORAGE OF CEMENT:
CEMENT SHALL NOT BE STORED FOR LONGER PERIODS THAN 6 WEEKS, WITHOUT THE APPROVAL OF THE ENGINEER.
- G15. REINFORCEMENT LAYOUT :

The diagram shows a cross-section of a wall or slab with reinforcement bars. Labels include T1, T2, B1, B2, T, B, B1, B2, MF, FF, EF, SF, EW, AL, ABR, STG, TCG, VERT, HORIZ, and PRS. Arrows indicate 'COVER' on both sides.
- G16. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL LAYOUTS & ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY
- G17. ACCORDING TO THE COPYRIGHT ACT, 1978 (ACT NO. 98 OF 1978) NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WHATSOEVER INCLUDING MECHANICAL, ELECTRONIC, PHOTOCOPYING, MICROFILMING OR ANY OTHER SYSTEM OF INFORMATION STORAGE WITHOUT WRITTEN PERMISSION

EXCAVATIONS:

- E1. EXCAVATIONS FOR BRICK WALL FOUNDATIONS SHALL BE INSPECTED BY THE ENGINEER
- E2. THE ENGINEER SHALL BE NOTIFIED IN GOOD TIME TO INSPECT ALL EXCAVATIONS PRIOR TO CASTING OF CONCRETE
- E3. BEFORE ANY REINFORCEMENT IS PLACED OR CONCRETE CAST, ALL EXCAVATIONS ARE TO BE CLEANED AND COMPACTED WITH A PLATE COMPACTOR TO REFUSAL DENSITY.

CONCRETE:

- C1. MATERIALS & MIXED PROPORTIONS:
C1.1 THE GRADES FOR CONCRETE, UNLESS OTHERWISE INDICATED SHALL BE AS FOLLOWS:

ITEMS	CLASS MPa / STONE
COLUMNS	CLASS 40 / 19mm
FOUNDATION	CLASS 20 / 19mm
RETAINING WALLS	CLASS 30 / 19mm
STRUCTURAL SLABS	CLASS 40 / 19mm
SURFACE BED SLABS	CLASS 30 / 19mm
MASS CONCRETE	CLASS 10 / 38mm
STAIRS	CLASS 30 / 19mm

C1.2 CONCRETE CUBE TESTING TO BE DONE IN ACCORDANCE WITH SANS 1200G. THE NUMBER OF SAMPLES (A SAMPLE BEING SUFFICIENT FOR 3 CUBES) PER BATCH OF CONCRETE TESTED IN ORDER TO DETERMINE STRENGTH GAIN (STRIPPING TIME IS TO BE AGREED PRIOR TO COMMENCEMENT OF WORKS BETWEEN ENGINEER AND CONTRACTOR.
- C2. CONCRETE COVER OVER REINFORCEMENT UNLESS OTHERWISE SHOWN DIFFERENTLY:

SLABS & BEAMS :	30mm TO LINKS
COLUMNS :	30mm MINIMUM COVER TO STIRRUPS
FOUNDATIONS:	BOTTOM 50mm SIDES & TOP 50mm
WALLS:	SOIL FACE 30mm INSIDE FACE 30mm

C3. CASTING OF CONCRETE IN EXCESS OF 3.5m HIGH IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- C4. LEVELS TO BE TAKEN TOP AND BOTTOM OF SLAB PRIOR TO DEPROPPING
- C5. REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER ONLY AFTER IT HAS BEEN COMPLETELY FIXED IN POSITION. FORMWORK IS CLEAN, SPACERS ARE PLACED IN POSITION, & AFTER THE CONTRACTOR HAS INSPECTED IT HIMSELF.
- C6. CONCRETE LEGEND :

230 X 500BM (DIS)	-230 WIDE X 500 DEEP (INCLUDING SLAB) DOWNSTAND BEAM
230 X 500BM (UP)	-230 WIDE X 500 DEEP (INCLUDING SLAB) UPSTAND BEAM
R.W.P	-RAINWATER PIPE
U.O.S	-UNLESS OTHERWISE STATED
U.O.N	-UNLESS OTHERWISE NOTED
T.O.C	-TOP OF CONCRETE
T.O.W	-TOP OF WALL
T.O.C ± 0.000	-TOP OF CONCRETE LEVELS
T.O.C ± 0.000	-CONCRETE SOFFIT LEVEL
170mm STEP	-STEP

C7. REINFORCING STEEL LEGEND:

T	-TOP
T1	-HIGHEST OF TOP LAYERS
T2	-2nd HIGHEST OF TOP LAYERS ETC.
B	-BOTTOM
B1	-LOWEST OF BOTTOM LAYERS
B2	-2nd LOWEST OF BOTTOM LAYERS ETC.
MF	-NEAR FACE
FF	-FAR FACE
EF	-EACH FACE
SF	-SIDE FACE
EW	-EACH WAY
AL	-ALTERNATE
ABR	-ALTERNATE BAR REVERSING
STG	-STAGGERED
TCG	-TOGETHER
VERT	-VERTICAL
HORIZ	-HORIZONTAL
PRS	-IN PAIRS

C7. WELDING OF REINFORCEMENT IS NOT ALLOWED UNLESS IT HAS BEEN APPROVED BY THE ENGINEER IN WRITING
- C8. CONSTRUCTION JOINTS IN BEAMS/SLABS:

The diagram shows a beam with a construction joint. The left part is labeled 'FIRST CAST' and the right part is labeled 'SECOND CAST'. There is a '200mm' gap between them. The joint is labeled 'DISCUSS DETAIL & POSITION OF CONSTRUCTION JOINTS WITH ENGINEER'.

C9. SHRINKAGE STRIPS IN CONCRETE FLOORS SHALL NOT BE CAST WITHIN 21 DAYS OF CASTING THE LAST SURROUNDING SLAB. NOTE THAT THE BAG CONTAINING THE SHRINKAGE STRIP MUST REMAIN PROPPED UNTIL ALL CONCRETE HAS REACHED THE REQUIRED AGE.
- C10. CONCRETE MIX DESIGNS ARE TO BE SUBMITTED TO ENGINEER FOR APPROVAL.
- C11. NO INDUSTRIAL WASTE PRODUCT BEING UTILIZED AS A CONSTITUENT COMPONENT IS TO ORIGINATE FROM INDUSTRIAL FACILITIES CO-FIRED WITH HAZARDOUS WASTE.
- C12. WHERE INDUSTRIAL WASTE PRODUCT IS BEING USED FOR CEMENT REPLACEMENT, DETAILED MIX DESIGNS EXPLICITLY STATING AND IDENTIFYING THE PROPORTION OF INDUSTRIAL WASTE PRODUCT TO BE USED IN PLACE OF CEMENT ARE TO BE PROVIDED.

SURFACE BED:

- S81. 28 DAY CONCRETE STRENGTHS : 30MPa
ALL SURFACE BEDS 30/19mm STONE
- S82. SURFACE SHOULD BE POWER FLOTTED WITH A STEEL TROWEL
- S83. SURFACE BEDS ARE TO BE CAST ON COMPACTED FILL AND A 250 MICRON THICK PLASTIC MEMBRANE TO ASSIST WITH THE CURING AND CREEP OF THE CONCRETE
- S84. THE SURFACE BED IS TO BE CAST INDEPENDENTLY FROM THE BRICKWORK. THE SURFACE BED IS NOT TO REST ON THE BRICKWORK.
- S85. ISOLATION JOINTS ARE TO BE PROVIDED AROUND THE PERIMETER OF THE SURFACED BED BETWEEN THE SURFACE BED AND THE BRICKWORK. THIS IS DONE BY TURNING UP THE PLASTIC MEMBRANE AGAINST THE BRICKWORK BEFORE CASTING. THIS ACTS AS A BOND BREAKER (UNO).
- S86. REFER TO ARCHITECTS DETAILS FOR TOP SURFACE FINISH
- S87. CONSTRUCTION JOINTS IN SURFACE BED TO BE DISCUSSED WITH ENGINEER.
- S88. SAWN JOINTS TO BE PROVIDED WITHIN 24 HOURS AFTER CASTING OF CONCRETE.
- S89. SAWN JOINTS ARE TO BE CUT AT RIGHT ANGLES TO CONSTRUCTION JOINTS IN ALL CASES
- S810. FOR DETAILS OF DAMP PROOF COURSE UNDER ALL SLABS ON GROUND REFER TO ARCHITECTS DRAWING
- S811. BACKFILL AROUND COLUMNS AND WALLS TO COMMENCE EVENLY
- S812. ALL PIPED SERVICES & CABLES MUST BE LAID DURING OR SOON AFTER THE CONSTRUCTION OF COLUMNS & SHAFT BASES
- S813. ALL FILL UNDER SURFACE BEDS SHALL BE AN APPROVED CHOICE MATERIAL, COMPACTED IN LAYERS OF 150mm THICK TO 95% MOD AASHTO DENSITY (UNLESS OTHERWISE SPECIFIED)
- S814. MINIMUM LAP LENGTH OF MESH REINFORCEMENT IS 300mm
- S815. ALL THE DOVEL BARS ARE TO BE 100% STRAIGHT, LEVEL AND AT RIGHT ANGLES TO THE JOINT DIRECTION.

STRUCTURAL STEEL:

- S1. ALL DIMENSIONS MUST BE CHECKED ON SITE BEFORE THE PRODUCTION OF WORKSHOP DRAWINGS COMMENCES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- S2. WORKSHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION COMMENCES
- S3. ALL STEEL TO BE SANS 1431 GRADE 350W EXCEPT FOR COLD ROLLED SECTIONS WHERE COMMERCIAL QUALITY STEEL CAN BE USED. A CERTIFICATE FROM THE STEEL MANUFACTURER IN WHICH THE GRADE IS VERIFIED SHALL BE HANDED TO THE ENGINEER.
- S4. ALL WELDING TO BE RESTRICTED TO THE FACTORY ONLY, EXCEPT WHERE OTHERWISE NOTED. WELDING IS TO BE DONE STRICTLY ACCORDING TO SANS 10044, SANS 10167 & SANS 1431, AND WILL BE 6mm C.F.W. OR BUTT WELD (MIN.) TO THE FULL STRENGTH OF THE MATERIAL JOINED. WELD ALL ROUND TO THE MAXIMUM LENGTH POSSIBLE (U.O.N.)
- S5. ALL BOLTS MUST BE 16mm DIA. BLACK BEARING BOLTS CLASS 8.8 UNLESS SPECIFIED AND MUST COMPLY WITH SANS 135, SANS 136 & SANS 1700 SET ALL HOLES TO BE DRILLED 2mm LARGER THAN THE BOLT DIAMETER.
- S6. ALL STRUCTURAL STEEL TO BE THOROUGHLY CHIPPED, SCRAPED OF ALL LOOSE MILL SCALE AND WIRE BRUSHED TO REMOVE ALL GREASE, DIRT, RUST AND OTHER DELETERIOUS MATERIALS.
- S7. ALL STEELWORK TO BE PROTECTED AGAINST CORROSION ACCORDING TO SANS 14713 (ISO 14713)
- S8. ALL STRUCTURAL WORK TO BE CHECKED AND APPROVED BY THE ENGINEER BEFORE LEAVING THE WORKSHOP. (U.O.S.)
- S9. ALL PLATES TO BE 10mm THICK UNLESS OTHERWISE NOTED.
- S10. GROUT UNDER BASE PLATES TO HAVE A MINIMUM PERMISSIBLE BEARING PRESSURE OF 10MPa AND BE OF NON-SHRINK GROUT.
- S11. UNLESS OTHERWISE NOTED IN THE STEEL SPECIFICATIONS, ALL STEEL TO BE HOT DIPPED GALVANIZED TO SABS 121 (SABS ISO 1461)
- S12. WHERE DESIGN OF THE BUILDING STRUCTURE IS PREDOMINANTLY FRAMED IN REINFORCED CONCRETE IT IS REQUIRED THAT ALL REINFORCEMENT STEEL USED IN THE PROJECT HAVE POST CONSUMER RECYCLED CONTENT GREATER THAN 60% & THAT 60% OF THE PROJECT STEEL USE BY MASS HAS AN AVERAGE POST CONSUMER RECYCLED CONTENT GREATER THAN 90%
- S13. STEEL INCLUDES STRUCTURAL STEEL, CONCRETE REINFORCEMENT STEEL (I.E STRESSED, IN SITU, PRE-CAST), STEEL PRODUCTS (I.E HOT ROLLED BEAMS, COLUMNS), ANGLES, MULLIONS, COLD-FORMED PRODUCTS (I.E PURLINS, GIRTS, CLADDING, PROFILED STEEL DECKING & SHEETING) BUT EXCLUDES PRE-EXISTING STEEL THAT IS RETAINED IN A REFURBISHMENT

MASONRY:

- B1. ALL BRICKWORK TO BE OF SOLID HARD BURNED CLAY BRICKS, WITH A COMPRESSIVE STRENGTH OF NOT LESS THAN 14MPa LAID ON A CLASS 2 MORTAR WITH A 28 DAYS COMPRESSIVE STRENGTH OF 7MPa AS SPECIFIED IN SANS 0164 PART 1 (CODE OF PRACTICE FOR MASONRY). REFER TO DRAWINGS FOR DETAILS OF LOAD BEARING WALLS.
- B2. BRICKFORCE:
MINIMUM DIAMETER OF BRICKFORCE = 2.8mm
YIELD STRENGTH = 480MPa
LAP LENGTH = 400mm MIN
- B3. BRICKFORCE SHALL BE PLACED IN ALL COURSES ABOVE THE WALL FOOTING TO THE SURFACE BED LEVEL (MIN 7 COURSES) AND THEREAFTER IN EVERY FOURTH COURSE UP TO DOOR OPENING HEIGHT. 4 LAYERS OF BRICKFORCE OVER ALL DOORS AND WINDOWS. BRICKFORCE SHALL BE BUILT INTO THE WALLS WITH A MORTAR COVER OF AT LEAST 20mm
- B4. ALL DIMENSIONS AND DETAILS OF BRICKWORK ARE AS PER THE ARCHITECTS LAYOUTS.
- B5. PLACE 10mm SOFTBOARD OR OTHER APPROVED MATERIAL ON TOP OF ALL NON-LOADBEARING WALLS.
- B6. TWO SHEETS 250um DPC SHEETING TO BE PLACED ON TOP OF ALL LOADBEARING

BRICKWORK:

- B7. EXTENT OF LOADBEARING WALLS WILL BE INDICATED ON THE LAYOUT DRAWINGS.
- B8. UNITS SHALL BE LAID IN STRETCHER BOND I.E. WITH STAGGERED VERTICAL JOINTS (UNO)
- B9. MASONRY UNITS SHALL BE WETTED PRIOR TO LAYING IN A WALL. UNITS SHALL BE LAID ON A FULL BEDDING OF MORTAR AND VERTICAL JOINTS BETWEEN UNITS SHALL BE COMPLETELY FILLED WITH MORTAR (UNO)
- CAVITY WALLS:
B10. WEEP-HOLES SHALL BE FORMED IN THE OUTER LEAF OF WALLING AT INTERVALS NOT EXCEEDING 1M AND IMMEDIATELY ABOVE THE DAMP-PROOF COURSES BY LEAVING PERPENDICULAR JOINTS OPEN FOR A HEIGHT OF APPROXIMATELY 50mm.
- B11. WHERE DUCTS, SLEEVES OR PIPES ARE LAID ACROSS A CAVITY, THE CONSTRUCTION SHALL BE SUCH THAT THE TRANSMISSION OF MOISTURE IS REVERTED.
- B12. THE CAVITY IN CAVITY WALLS CONSTRUCTION SHALL BE KEPT FREE OF MORTAR AND DEBRIS AS THE WORK PROCEEDS. TIES SHALL BE CLEANED OF MORTAR DROPPINGS. MORTAR DROPPINGS REACHING THE BASE OF THE CAVITY SHALL BE REMOVED DAILY THROUGH TEMPORARY OPENINGS. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE THE DPC WHILST CLEANING THE CAVITY. TIMBER BATTENS SPREAD OVER THE WIRE TIES MAY BE USED TO PREVENT EXCESS MORTAR FROM BEING SPLIT INTO THE CAVITIES.
- B13. CAVITIES OF CAVITY WALLS SHALL BE FILLED WITH MORTAR IN THE FOUNDATION DEPTH TO THE UNDERSIDE OF THE DPC.
- WALL TIES IN CAVITY WALLS:
B14. THE LEAVES OF CAVITY WALLS SHALL BE CONNECTED TO EACH OTHER BY MEANS OF WIRE TIES.
- B15. BUTTERFLY AND MODIFIED PWD TIES SHALL BE PROVIDED IN CAVITY WALLS AT VERTICAL CENTERS NOT EXCEEDING 450mm AND AT HORIZONTAL CENTERS NOT EXCEEDING 500mm. TIES SHALL BE UNIFORMLY STAGGERED.
- B16. ADDITIONAL TIES SHALL BE PROVIDED IN CAVITY WALLS AT VERTICAL CENTERS NOT EXCEEDING 300mm CENTERS WITHIN 150mm OF THE EDGES OF ALL OPENINGS AND WHERE A LEAF INTERSECTS WITH ANOTHER WALL.
- B17. TIES SHALL BE LAID IN THE MORTAR AS THE WORK PROGRESSES AND SHALL HAVE AN EMBEDMENT IN THE MORTAR OF NOT LESS THAN 50mm. TIES SHALL BE A SET LEVEL OR WITH A SLIGHT SLOPE TO THE OUTSIDE LEAF OF THE WALL. NO MOISTURE MAY BE TRANSMITTED TO THE INNER LEAF.
- B18. EACH LEAF OF THE WALL SHALL BE REINFORCED WITH THE APPLICABLE WIDTH OF BRICK-FORCE AS PER ALL OTHER WALLS.

CODES OF PRACTICE:

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING CODES:

- | | |
|-------------|--|
| SANS 1200AH | - GENERAL (STRUCTURAL) |
| SANS 1200B | - EARTHWORKS |
| SANS 1200F | - PILING |
| SANS 1200G | - CONCRETE (STRUCTURAL) |
| SANS 1200GE | - PRECAST CONCRETE (STRUCTURAL) |
| SANS 1200H | - STRUCTURAL STEELWORK |
| SANS 1200HC | - CORROSION PROTECTION OF STRUCTURAL STEELWORK |




TIMBER:


- T1. ALL TIMBER APPLICATIONS, BOTH PERMANENT & TEMPORARY, ARE TO ORIGINATE FROM A VALID FSC CERTIFIED SOURCE OR BE POST CONSUMER RECYCLED OR REUSED.
- T2. THE TIMBER ROOF IS TO BE DESIGNED IN ACCORDANCE WITH THE ARCHITECTS LAYOUTS. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BEFORE FINAL DESIGNS AND LAYOUTS ARE PREPARED.
- T3. PREFABRICATED TIMBER ROOF TRUSSES, PURLINS AND ALL ADDITIONAL TIMBER MEMBERS ARE TO BE DESIGNED ACCORDING TO THE SPECIFICATIONS AND SUPPLIED BY A MITEK OR SIMILAR APPROVED SUPPLIER WHO HAS BEEN AWARDED A "CERTIFICATE OF COMPETENCE" BY THE INSTITUTE FOR TIMBER CONSTRUCTION.
- T4. ALL TIMBER MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WITH SANS 10163-PART1 (CODE OF PRACTICE FOR TIMBER STRUCTURES)
- T5. THE DESIGNER OF THE ROOF STRUCTURE SHALL DESIGN THE ROOF FOR ALL POSSIBLE LOAD CONDITIONS AS PER SANS 10160 (CODE OF PRACTICE FOR THE GENERAL PROCEDURES AND LOADINGS TO BE ADOPTED IN THE DESIGN OF BUILDINGS).
- T6. DESIGN CALCULATIONS AND LAYOUTS ARE TO BE ISSUED TO THE ENGINEER FOR APPROVAL BEFORE MANUFACTURING MAY COMMENCE.
- T7. THE ROOF SUPPLIER IS TO INSPECT THE ROOF STRUCTURE DURING AND AFTER CONSTRUCTION, AND HAVE IT CERTIFIED BY A PROFESSIONAL ENGINEER ENSURING THAT ALL WORK IS IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS.
- T7. AN ENGINEERS CERTIFICATE SHALL BE SUBMITTED TO THE MAIN CONTRACTOR UPON COMPLETION AND INSPECTION OF THE ROOF STRUCTURE.

PRESTRESSED CONCRETE LINTOLS

- L1. BRICKS TO BE SOAKED IN WATER BEFORE USE.
- L2. LINTOLS TO BE CLEANED AND WETTED BEFORE RECEIVING MORTAR
- L3. ALL JOINTS IN BRICKWORK (VERTICAL AND HORIZONTAL) ARE TO BE FILLED SOLID WITH MORTAR.
- L4. BRICKFORCE IS TO BE PLACED IN ALL MORTAR COURSES. REFER TO SPECIFICATIONS ABOVE.
- L5. LINTOL SPECIFICATIONS:
150mm WIDE X 70mm HIGH (MIN PRESTRESSING WIRES)
SPAN 900 - 1800mm = 4 WIRES
SPAN 2100 - 3000mm = 6 WIRES
150mm WIDE X 70mm HIGH (MIN PRESTRESSING WIRES)
SPAN 4200 - 5400mm = 7 WIRES
SPAN 900 - 1800mm = 4 WIRES
SPAN 2100 - 3000mm = 6 WIRES
SPAN 4200 - 5400mm = 8 WIRES
PRESTRESS WIRES 2.64 DIAMETER WITH A MINIMUM BREAKING FORCE OF 9.2kN. INITIAL FORCE = 6.25kN/WIRE
- L6. CONCRETE AT TRANSFER = 20MPa
- L7. INSTRUCTIONS FOR USE:
LINTOL LENGTH - MINIMUM BEARING MIN BRICK
AT EACH END COURSES ABOVE
900 - 1500 150mm 3 COURSES
1500 - 3000 230mm 4 COURSES
3000 - 3900 230mm 5 COURSES
3900 - 5400 300mm 6 COURSES
UPWARD CAMBER AT MIDSPAN
900 - 1500 = 0mm / 1500 - 3000 = 5mm
3000 - 3900 = 10mm / 3900 - 5400 = 15mm
TEMPORARY SUPPORTS BETWEEN SPANS ARE TO BE PLACED AT A MAXIMUM OF 1.5M AND TO REMAIN IN PLACE FOR A MINIMUM OF 28 DAYS AFTER THE CONSTRUCTION OF ALL BRICKWORK AND ELEMENTS TO BE SUPPORTED.
- L8. THE MINIMUM MORTAR MIX TO BE USED FOR THE BRICKWORK ABOVE THE LINTOLS IS:
SPANS 900 - 3000 = 7 SAND:1 CEMENT
SPANS 3000 - 5400 = 6 SAND:1 CEMENT

NO.	DATE	REVISION	DRAWN
00	09/09/2022	FOR INFORMATION	N/I

CLIENT			
 DEPARTMENT of EDUCATION PROVINCE OF KWAZULU-NATAL			
TECHNICAL CONSULTANT			
 MPAMOT (Pty) Ltd REG. No. 1987/014139/07 2nd Floor Liberty Building 21 Aunsee Drive, Umhlanga Ridge Durban, 4319 T +27 (0)31 824 1000 W www.mpa-mot.co.za			
			
NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED	N/A	09/09/22	A0
DRAWN	N/I	09/09/22	SCALE
VERIFIED	K.S	09/09/22	1:10 (H) 1:20 (V) 1:50 (S)
VALIDATED			PROJECT NUMBER
			Revision
			1 - Issued for Construction
			06 - As-built

IMPLEMENTING AGENT	
 DBSA Development Bank of Southern Africa	
PROJECT:	MACEKANE PRIMARY SCHOOL SANITATION PROJECT
EMIS NO:	500147223
TITLE:	GENERAL NOTES
DESCRIPTION:	GENERAL NOTES
DRG NO.:	2021 - 01 - S - 001
REV	00